

Cracklin' Static

August 2018 Edition



Breakfast Meeting – Sat, Aug 4th

Boomtown Casino Hotel
Events Center
I-80 at Exit 4 in Verdi

Breakfast Buffet – 7:30am - \$12
General Meeting – 8:00am

There will be a recap and discussion of
NVCON, the stats, and highlights.

SNARS NET on DMR – Tuesday 8pm

DMR Talk Group: 31328 SNARS

SNARS Treasury – As of July 31:

Checking	6,026
Savings	5,773
Self Ins	1,541
Convention	6,744
PayPal	5,396

Total	25,480
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SNARS Membership – ending July 30

Extra	128	35%
General	100	27%
Technician	121	33%
Advanced	16	4%

SNARS Members	365
ARRL Members	244

President's Voice

President Anthony Marcin, W7XM

Email: w7xm@snars.org | Telegram: [@w7xm_nv](https://t.me/w7xm_nv)



Welcome to August and NVCON 2018 now in the history books. The event was a success in terms of quality of speakers/sessions, the exhibitors and of course the familiar faces of Bob K6UDA and Gordon West, WB6NOA along with many others but we did take a small loss due to

some of the growing expenses and of course new additions we added this year of which we will note for NVCON 2019! I would like to thank the NVCON 2018 Planning committee for their hard work and support of this great event! And thank you to all the SNARS members I saw present at the event and hope this was an event the members of SNARS will continue to enjoy in the foreseeable future.

So, over the next few months, you will see some changes starting to happen, notably myself and the role of the present for SNARS. We will be looking for the next president of SNARS this year and highly encourage anyone looking to become either President and or joining the board will be greatly welcomed. I feel I am leaving this organization in a great path. We have over 366 members to date in the organization and growing. We have taken on the NVCON, continued the successful Reno Ham Swap Events, hosted Field Day at Washoe Lake State Park, taking on the Nevada QSO Party in October, have done multiple classes/workshops for the membership and general amateur radio community and of course deployed the DMR network of repeaters that cover the Northwestern portion of Nevada. You will see a new members portal and possibly website which will help to streamline how memberships are applied for and renewed along with our members-only content.

If you are interested in running for the board of directors, the call for nominees will begin September 1st. We also need people to fill some critical roles in the organization as well. If you have some spare time and would like to continue to move SNARS forward, please contact myself or any board member and or review last month's newsletter on the roles we are looking to fill.

73, Tony W7XM



PO BOX 7727 Reno NV 89510
 Yearly Dues: \$40.00 Individual • \$50.00 Family
 775.453.4142 <http://snars.org>

2018 Officers

President.....Anthony Marcin, W7XM
 Vice-President.....Jim Shepherd, W6US
 Treasurer.....Bill Jones, AE7OX
 Secretary.....Rob Dunbar, NB6C
 DirectorWes Vick, KG7QXE
 DirectorJohn Byerly, N7ROJ
 DirectorBarry Bettman, K6ST

2018 Staff

Cracklin StaticHowie Holden, WB2AWQ
 W7TA TrusteePeter DeBay, KE7VSR
 KR7ENO Trustee.....Howie Holden, WB2AWQ
 Control OperatorPat Sheehan, W7DED
 HistorianJon Fox, KF7KTC
 Tech Team LeadJohn Byerly, N7ROJ
 MembershipAnthony Marcin, W7XM
 PIOGreg Krantz, NF6C
 VE Coordinator.....Bill Nichols, NN7K
 Meeting GreeterBill Jones, AE7OX
 Noon Net ManagerWes Vick, KG7QXE
 DMR Net ManagerAnthony Marcin, W7XM
 Reno Ham Swap.....Rob Dunbar, NB6C
 WebmasterErik Andreasen, K6CZH

Cracklin Static Publication

Editor: Howie Holden **WB2AWQ** - holden7471@msn.com

Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size or line spacing may be required to publish this Newsletter. **Deadline for input to the newsletter is 1500 hours on the Sunday** prior to the 1st Saturday of each month.

SNARS Wide Area Linked System

147.030 + PL 123.0	Sparks, Fernley, Fallon	Online
147.210 + PL 100.0	Reno, Sparks	Online
147.150 + PL 123.0	Lake Tahoe, Truckee, Carson	Online
146.925 - PL 123.0	Lovelock, Fallon	Online
146.670 - PL 123.0	Winnemucca	Online
444.875 + PL 100.0	Yerington	Online
444.125 + PL 123.0	Reno Sparks	Offline

DMR Systems

444.925 + CC 1	Reno, Sparks	Online
444.825 + CC 1	Dayton, Fallon, Carson	Online
443.925 + CC 1	Lake Tahoe, Truckee, Carson	Online
443.950 + CC 1	Incline Village	Online
442.875 + CC 1	Sparks, Fernley, Fallon	Online
442.850 + CC 1	Downtown Reno	Online
441.950 + CC 1	Fallon, Fernley	Online

Fusion Systems

146.610 - PL 123.0	Reno, Carson, Dayton	Online
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IRLP / EchoLink Systems

147.300 + PL 123.0	Reno, Sparks	Online
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Packet / APRS

145.050 - RNO	Reno, Carson, Dayton	Online
145.050 - ROSE	Lake Tahoe, Truckee, Carson	Online
144.390 - TOULON	Lovelock, Fallon	Online

Standalone Systems

147.390 + PL 100.0	Reno, Carson, Dayton	Online
443.075 + PL 123.0	Reno, Carson, Dayton	Online
927.0875 + PL 114.8	Reno, Carson, Dayton	Online



Online



Offline



Not Linked

Thank you to our Sponsors/Supporters



Weekday on the SNARS Linked System

147.030 + PL 123 – Sparks/Fernley
 147.150 + PL123.0 – Lake Tahoe / Truckee
 147.210 + PL 100.0 - Reno
 444.875 + PL 100.0 - Yerington
 146.925 - 123.0 – Lovelock / Fallon
 146.67 – PL 123.0 - Winnemucca

Monday through Friday @ 12:00pm

Open to all amateur radio operators. A general informational net for the amateur radio community of Northern Nevada and Eastern California. Radio Checks and Questions are welcomed.

Nets on the SNARS Linked Systems

147.210 + 100.0 | 147.030 + 123.0 | 147.150 + 123.0
 147.670 – 123.0 | 146.925 – 123.0 | 444.875 + 100.0

Bishops Storehouse Nt	Monday @ 9:15pm
N. Western NV ARES Net	Monday at 7:30pm
Northern Nevada Preppers Net	Wednesday @ 8:00PM
Hospital Net	Friday @ 10:00AM

Nets on IRLP (GSR) System

Repeater: 147.300 + 123.0

Amateur Radio Newslane	Monday - 8:00PM
Nevada Skywarn Net	Wednesday - 7:00pm
Nevada State ARES Net	Thursday - 7:00PM

Nets on Simplex/HF

Jefferson Noon Net	7.204 LSB	Daily - 12:00pm
6 Meter Net	50.350 USB	Tuesday – 8:00pm
2 Meter Week Signal	144.250 USB	Wednesday - 8:00PM
2 Meter Simplex Net	146.500 FM	Thursday – 8:00PM
10 Meter Net	28.350 USB	Sunday – 2:00PM

**SNARS Weekly DMR Net – Tuesdays
8:00PM**

SNARS Talk Group 31328

Open to Members and Guests. A general information net each week on DMR.

SNARS CALENDAR

SNARS Board Meeting Wednesday Aug 8, 6 PM
 295 Los Altos Pkwy, Sparks, NV

One Day Ham Review Saturday, Aug 18, 2018
 Washoe REOC 5195 Spectrum Blvd, Reno NV
 Visit <http://snars.org/classes> for more information on the One Day Ham Review / Ham Cram

Next SNARS Breakfast Meeting – Sat Sept 1, 8 AM
 Boomtown Casino Hotel Events Center
 I-80 at Exit 4 in Verdi

WELCOME NEW MEMBERS

Richard	Burger	KF7SUA
Jacob	Howard	KI7WHJ
Jim	Browne	K7AEG
Antone	Sallaberry	KI7ZMZ
David	Deas	K6VLH
Deborah	Deas	KK6PFT
Miles	Parrish	KI7ZNA
Douglas	Edmondo	W7DBE
Subrina	Vinton	KI7OAL
Jim	Colbert	KI7ZVU
Kirby	Mays	KI7ZVX
Norman	Horsley	N7PY
Michael	Fuess	KG6FVQ
Frank	Lovering	KI7ZWA

THE NAME OF THE GAME

Jim Shepherd, W6US nvjims@gmail.com

POWER

The one essential item to all of our radios is power. From batteries for handhelds to a custom installed 240 Vac line to run that legal limit final amplifier, we need power to run our radios.

Handhelds come with batteries, and most of these are rechargeables. Nickel-Metal-Hydride, Nickel-Cadmium, and Lithium are the most popular chemistries for these batteries and they all require chargers that adjust the charging to fit the battery. Charging the wrong battery with the wrong charger can cause real damage, and in the case of Lithiums, it may cause a fire or explosion. Stick with your manufacturer's recommended charger for these batteries. A battery eliminator or external power supply may be used to run the radio if they are designed to provide the correct filtered power to the radio. The usual 'wall wart' charger that plugs into the radio to charge the battery does not have the filtering and you will have lots of hum on your signal. Some radios have 'clamshell battery packs' that take AA batteries, and these are good for situations where you will not be able to recharge normal batteries.

Mobile radios usually get their power from the vehicle's electrical system. That electrical system wasn't designed to provide beautiful clean power to the radio. Voltages vary from the low 11 Vdc range when the car isn't running, much lower while grinding the starter, to as high as 15 Vdc when the charging system is working hard. This is why most of the new ham gear is designed to run best at 13.8 Vdc even though they are called 12 volt radios. Besides these main voltages, there are other signals present—computer noise from the multitude of controls and systems, arcing noise from ignition and small motors, induction caused spikes from relays and solenoids, hum (whine) from the alternator, etc. The car battery helps smooth out these signals, and that is part of the reason why it is recommended to run the power lead directly to the battery, with a fuse of course. In some cases, you will have to add a filter on your power cable close to the radio. By the way, the only use of an automobile battery for power should be when it is installed in a vehicle. They are not designed for a long term discharge and recharge pattern that you will have trying to use it for just your radio. Even if you are just using one to charge your cell phone, you may find out that the cigarette lighter plug to USB charging adaptor can be extremely RF noisy. Some are quiet, but others have been known to block S9 signals...

Mobile radios are also a favorite for use in the shack. Usually they share a power supply with another radio or they have a power supply that is about the same size as the radio and mounted with a bracket to hold the radio. These power supplies need to be designed for communications use as they will have the necessary filtering to prevent hum and other noise from getting into your radio. Another system is to use a power supply with its output voltage set to the float voltage of a sealed deep cycle battery. The battery will provide surge current to the transmitter in excess of the rating of the power supply, and it will also give you some additional filtering as well as some power failure backup. The sealed deep cycle battery needs to be designed for this sort of service, do not use an auto

battery for this purpose. Also the power supply needs to be set up so it does not drain the battery when it is turned off.

Base station radios may also work on 12 Vdc, and they will usually take a 30 amp or bigger power supply to do the job. Most manufacturers make a suitable supply that has the same cosmetics as their radio so they look nice sitting on your desk in the shack. I use a 50 amp power supply that feeds all my radios so I can listen on one while transmitting on another one. Some of the base stations are set up to run on 120 Vac, and others, especially the old boat anchors and homebrew gear, and may need specialized high voltage supplies. Other accessories now are using 5 Vdc power, and most of the small switching power supplies at this voltage are of the 'wall wart' type and tend to be very noisy. You can make your own quieter and higher power one with an old filament transformer and a circuit containing a 5 volt regulator and plenty of capacitors. Besides a binding post attachment, it should have a half dozen or more USB sockets to handle all of those devices.

Eventually the siren song of "More Power" will entice you into buying a big legal limit amplifier for the shack. Besides the warm glow of the big tubes and no longer needing to run a heater in the winter, you will now (hopefully) break that pile-up and get that rare DX. You will really need to have an electrician bring a 240 Vac circuit into your shack as these things pull too much power for your already overloaded 120 Vac wall plug. While he is at it, have him run a couple more 120 Vac circuits to relieve the load on that wall plug. Hopefully you can prevent the lights from dimming in the rest of the house when you transmit. Don't forget to change out that bargain RG-58 to your antenna, as it won't handle the higher voltages from that kilowatt amp.

Reliable power means reliable communications. In this area, power failures of more than an hour over a wide area are very rare. Charged batteries will usually carry you through the outage on the UHF/VHF bands. If you do live in the boonies where longer term outages are more common, investing in a backup generator can be helpful. Think in terms of keeping your refrigerator cold, the heater running, and the well pump on. There will be left over power to keep the ham gear running as a side benefit.

Finally, make sure your power is properly connected to your radios. You need to use the proper size wire for the length of the run and the needed current to prevent power loss. Heat generated in your power cord means less power out of your antenna. Proper fuses are needed to protect the equipment. Polarized attachment plugs like the Anderson Powerpoles™ can simplify adding and moving equipment from your shack to your vehicle or a portable operation. They are also available in different sizes and colors for use with other voltages than the normal 12 Vdc. Crimp-on ring or spade connectors allow secure connection to screw terminals without having that stray strand of wire risking a short. For the AC connections, use the proper grounded plugs. There are now 24 Vdc rated multi Farad capacitors available at a reasonable price to further smooth out your 12 volt power when your voice peaks during transmissions.

Good power sources and good connections will help you put out a good signal.

WHAT EARLY NOVICES USED

chapter two

There were many commercial transmitters aimed at the new Novice class in the 50s and 60s. Some of the long-time major players were E.F. Johnson, Heathkit, Knight, and Lafayette. Typical characteristics of Novice transmitters were 75 watts or less input, crystal control, ease of tuning (all transmitters had to be tuned in the day) and low cost. Price was an issue, as a large segment of the Novice population was teens and young adults.

Some transmitters had additional capabilities for when the Novice graduated to General: a VFO input, a basic modulation system, and slightly higher available power were the usual ones, although going from 75 watts to 90 – the typical high power offered, was no real advantage at all. All the transmitters shown here were available in kit form.



The Ameco AC-1, about as basic as it gets. Single tube RF circuit, low power (15 watts in), plug-in coils, no meter. About \$20



E.F. Johnson Adventurer. 50 watts in, could accept a VFO, pi-network output, 80-10 meters. About \$55. And it was a Johnson, a big name in full feature ham transmitters.



Knight T-60. 60 watts in, pi-network output, 80-6 meters, could accept VFO, had carrier-screen modulation. Never quite as popular as Heath or Johnson, but 6 meters had some appeal to those Novices who opted for a Tech license instead of a General. About \$50.

While the very earliest Novice transmitters rarely had voice capability, transmitters that appeared in the 60s generally did, like the Knight above and the Heath and Lafayette below. Hallicrafters and Globe also offered several models that had voice capability.

While the frequencies available to the Novice were small, not very DX-friendly sections in the 80, 40, and 15 meter bands, 75 watts in (about 35-50 watts out) could go a long way, and the Novice portions were quite busy.



Heathkit DX-60. Probably the most popular Novice transmitter of all time. 75-90 watts in, 80-10 meters, had a matching VFO, and carrier-screen modulation. Classic Heath styling. About \$80.



Lafayette Starflight transmitter. Similar specs and cost to the Heath DX60, but it never caught on like the DX-60.

NEXT MONTH: COMMERCIAL NOVICE RECEIVERS

SNARS LOGO ITEMS

This year we are celebrating our 50th year by providing many ways to commemorate this occasion by imprinted our 50th



Stickers \$1.00 Each



16oz Coffee Mugs \$8.00



Hats \$10.00



Club Badge \$15.00

Order at
<http://snars.org/store/badge-order>

Items are available at the monthly meetings, events or online (coming soon) <http://snars.org/store>

MIKE'S MISSIVES CHAPTER THIRTY SEVEN

Mike Katz, N7MSK

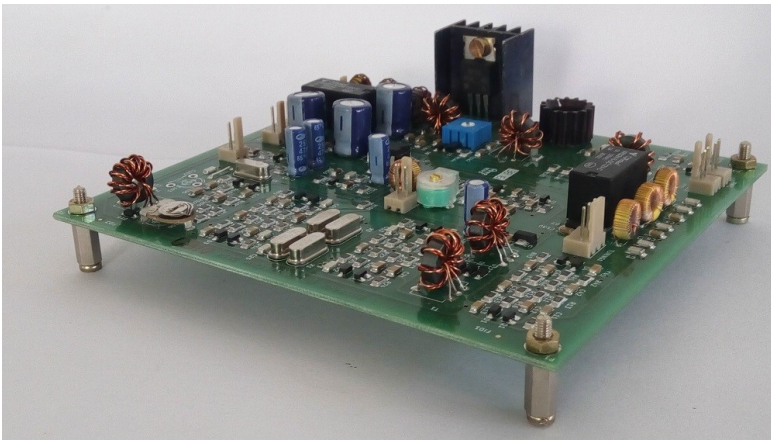
Part 97 ----Thou Shall Not...

Front and center in Subpart B, 97.101 (a) may well be the most important rule of all because it lays out the overriding responsibility of each amateur licensee: **"In all respects not specifically covered by FCC Rules each amateur station must be operated in accordance with good engineering and good amateur practice."**

This simple sentence underscores the responsibility of each operator to use good judgement and common sense when pursuing their interests. It means each licensee must continue to learn how stations interact properly, cooperate with fellow amateurs and treat each operator on the air with respect.

In many ways Subpart B is a laundry list of "do's and don'ts" that enable hundreds of thousands of amateurs on the air to share our limited bandwidth. Take the time to familiarize yourself with Subpart B. By following the letter and spirit of these rules, you can maximize your enjoyment while reducing potential problems or complaints on the air. A considerate operator will apply the rules and standards found in this section to his or her daily operation.

NAME THAT RIG



(Answer on page 8)

RENO AND CARSON CITY MEET-UPS CANCELLED

The Reno and Carson City Meet-Ups are cancelled until further notice. The last Reno one had only 3 members show up and the Carson one had no one show up. Also, the room for the Carson Meet-Up had not been reserved, and there is now another group signed up for the third Wednesday for the next few months.

Jim W6US nvjims@gmail.com

SNARS - Sierra Nevada Amateur Radio Society, Inc—<http://snars.org>

FUN STUFF FOR AUGUST

August offers events, and five are NCJ or ARRL-sponsored, (shown in bold) thus possibly qualifying for the ARRL Gavel Award:

A complete list of contests is available at:

<http://www.arrl.org/files/file/Contest%20Corral/2018/August%202018%20Corral.pdf>

4 Aug 0001 to 5 Aug 2359 28 10-10 International Summer Contest, SSB www.ten-ten.org

4 Aug 1800 to 5 Aug 0559 1.8-28 North American QSO Party, CW www.ncjweb.com

4 Aug 1800 to 5 Aug 1800 222 and up ARRL 222 MHz and Up Distance Contest CW Ph Dig www.arrl.org/222-mhz-and-up-distance-contest

18 Aug 0600 to 19 Aug 2359 10 GHz to light ARRL 10 GHz and Up Contest CW Ph Dig www.arrl.org/10-ghz-up

18 Aug 1800 to 19 Aug 0559 1.8-28 North American QSO Party, SSB www.ncjweb.com

19 Aug 1800 to 19 Aug 2359 3.5-50 ARRL Rookie Roundup, RTTY www.arrl.org/rookie-roundup

25 Aug 1200 to 26 Aug 0300 1.8-50 W/VE Islands QSO Party CW Ph Dig usislands.org

(Editor's note: Believe it or not, Wingfield Park qualifies as an island in this event! Maybe someone could activate it???)

If you're not into contests, there's always DX to chase, and August has some good ones, scattered around the globe! Some of the better DX operations coming up in August:

Aug 05 to Aug 11 **Guernsey GU**

Aug 05 to Aug 12 **Albania ZA**

Aug 06 to Aug 14 **Sri Lanka 4S7DMG**

Aug 07 to Aug 10 **Galapagos HC8**

Aug 11 to Aug 14 **Jersey GJ (had to get that one in...)**

Aug 15 to Aug 21 **Austral Is TX5T**

Aug 15 to Aug 29 **Tonga A35RR**

Aug 15 to Sep 19 **Tonga A35JLL**

Aug 20 to Aug 26 **Kosovo Z6**

Aug 31 to Sep 03 **Palau T88PB**

For details and a complete list of announced DX operations, visit: <http://www.ng3k.com/Misc/adxo.html>

For some non-contest, non-DX fun things, try these:

The ARRL International Grid Chase is on! All about it at: <http://www.arrl.org/international-grid-chase-2018>

ONLY 2 ½ MONTHS UNTIL THE NEVADA QSO PARTY!

Time to start planning that DXpedition to a remote county here in Nevada! CW and Digital operators are especially needed in the rural areas to give contacts on these modes on HF. For those of you who are not on HF, getting on a high mountaintop will let you hit dozens of repeater systems as well as some simplex contacts. For more information go to <http://NVQSO.com> for complete details!

Jim W6US nvjims@gmail.com

DUE TO NVCON THERE WAS NO SNARS BOARD MEETING IN JULY

FIELD DAY VIDEO

There was one very short video shot on Field Day, by Dan Baker KM6CQ, of Ken KB2SFS shooting the spud gun. Not a lot of noise, but you can see the projectile leaving the gun. Note also one phrase uttered just prior to shooting the gun: "flip the bail". Good reason for this, if you don't "flip the bail" on the spinning reel used to tether the bullet, the bullet will break the line, and fly off into the hinterlands, never to be found again....

Video (a VERY big file, 35 megs): https://www.icloud.com/attachment/?u=https%3A%2F%2Fcvws.icloud-content.com%2F2FB2FAB9PWyeuLZ0d1ldCzvpnTCPpmlgJARD57sz4Cy7GLf-H3rKo2YnBlr460%2F%24%7Bf%7D%3Fo%3DAj3o2EFARJjybJE35kTVNRFE31p67wfBMQpPZTih68tk%26v%3D1%26x3D326a3DB7HyNPDic1H3IMFJ7iJIM3IbFwLIaw91RQEA-CAHIAP9jQfq4A0_MRA%26e%3D1535421051%26k%3D%24%7Buk%7D%26fl%3D%26r%3DD406C956-99A8-4686-8A19-3AAD815D4234-1%26ckc%3Dcom.apple.largeattachment%26ckz%3D5FB9B904-640B-4619-83B5-439A257E1C79%26p%3D35%26s%3D6MHmNg_3WlZmyZslG0A_Kf8O8c&uk=Ybm_Pf3YMWolbSGzOxZHWQ&f=IMG_1687.MOV&sz=34773441

NAME THAT RIG (from pg 7)

WHAT THE HECK!!!!??? Looks like a circuit board, not a radio. But....it's a 40M SSB transceiver, known as the **BitX40**, built by **Paradigm E-commerce Pvt. Ltd.** of India. 7 watts out, on 40 meters. This radio includes: a 4-1/2 inches by 5 inches tested SSB transceiver module covering any 400 KHz segment of the 7 MHz band, the Raduino board with Si5351, Arduino Nano with code loaded, high quality BNC connector for the antenna, small electret microphone, two earphone-style audio jacks for the mic and the earphones/speaker, a set of DC power socket and plug, volume control with on/off switch, 10k linear pot for tuning, 8 brass standoffs with mounting nuts and bolts, connectors with wires for all connections to the board. You supply a power supply, a case, and speaker. The boards are completely assembled with surface mount parts, your work is in the interconnections and installing in a suitable enclosure. The price of this little radio? \$59 plus \$10 for DHL shipping from India. Or you can buy it from Gigaparts.com for \$69. There's a companion to this, the **uBitX**, which is a 3-30 Mhz transceiver, with keyer and other features for \$129, similarly equipped. The nice thing with these radios is they're "hackable" meaning there's places where you can add stuff in, easily make modifications, etc., in fact it's encouraged. The company has been around for about 13 years, but their products are just beginning to become recognized. Visit the company website as a starting point, and look around a bit. It's an impressive radio for the buck. I'm a dyed-in-the-wool tube guy, although I've got considerable experience with design and manufacture of earlier industrial solid-state stuff, and this kit looks like something I might enjoy playing with. If I get one I'll let you know....check out their website: <http://www.hfsignals.com/>



**Activate and Work all
17 counties in Nevada!**

Friday, Oct 12 - Sunday Oct 14

<http://nvqso.com>

For Information and Updates

ARES NEWS

ANNUAL COMMUNICATIONS CALENDAR 2018

EVENT 2018	DATE	DATE END	SPONSOR/ORGANIZER	COORDINATOR	CONTACT
Round Valley Walk/Run	TBD		Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net
Running With the Bears	8/18/18		Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net
Vegas to Reno Off Road Race	8/17/18	8/18/18	Best in the Desert Racing Assn	Keith KC7HTK	kc7htkeith@hotmail.com
Tour De Tahoe	9/9/18		Tahoe Amateur Radio Assn	Paul McCaffee KI6OCB	paul.mcafee6243@gmail.com
Reno Air-Races	9/12/18	9/16/18	WC-ARES	Rick Russell KF7KEM	wa6mty@gbis.com
Edible Pedal 100	9/16/18		Sunrise Rotary Club	Bob Miller WA6MTY	wa6mty@gbis.com
Grinduro SBTS	TBD		Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net
Nevada Day Parade	10/27/18		NV AREA NW DEC	John Abrott KD7NHC	jabrott77@gmail.com , cell 775 790-1739
Indian Valley Leaf Peepers	TBD		Plumas ARC	Larry Trotter KI6YUK	dltrotter@sbcglobal.net

NOTE: Plumas ARC always have a need for operators. Go over to some beautiful country and help out the Plumas Amateur Radio Club

Summer is thunderstorm season, but when National Weather Service (NWS) activates the SKYWARN Team, and we put out a call for severe weather reports, many times there is no one on frequency. So, if there isn't any lightning, and there is a cell above you, turn your radio on and listen for SKYWARN. Just because there is a storm doesn't always mean the Meteorologists will activate us, but we will work on that.

Below are the counties in the Reno NWS region and the repeaters that we can access from the NWS.

COUNTY	REPEATER	COUNTY	REPEATER	COUNTY	REPEATER	COUNTY	REPEATER
Alpine, Ca	147.33	Douglas	147.33	Pershing	147.03	Washoe	147.15
	146.94		147.27		147.18		147.21
	147.24		147.24	Placer, Ca	147.24		147.03
	147.27		146.865	Plumas, Ca	147.15		147.18
	146.865	Eldorado, Ca	147.24		147.21		146.61
Churchill	147.15	Lassen, Ca	147.18	Sierra, Ca	147.15		147.39
	147.21				147.33		
	147.03	Lyon	146.97	Storey	147.15	EchoLink and IRLP	146.895
	147.18		146.61		147.21		147.3
	146.97		147.15		147.03	DMR	TALK GRPS
Carson City	146.61	Mineral			147.18		
	146.94	Modoc, Ca			146.61		
	147.39	Mono, Ca			147.39		
	147.27	Nevada, Ca	147.15		146.85		

Attached is the severe weather report form that we use to provide your reports to the Meteorologists.

September 12th through the 16th is the Reno Air Races. If you and your friends would like to attend the Races, and have the time to volunteer 15 hours (three 5 hour shifts) you will have full access, almost a \$500 value. Contact me and I will add you to the list.

Bob WA6MTY

wa6mty@wcares.us



SEVERE WEATHER REPORTING FORM DATE: _____

TIME:		Call:		Name:												Spotter #:		
Alpn	Chur	Crns	Doug	Eldor	Lasn	Lyon	Min	Modc	Mon	Nev	Prsh	Plac	Plum	Sier	Stor	Wsho		
Location:															Elevation			
NOTE: The following selections require you to just check or circle the estimated parameter.																		
WIND: MPH	30-44	45-57	58-74	75-89	90+	Estimated		Measured		FROM:	N	NE	E	SE	S	SW	W	NW
RAIN:	Moderate (0.25-0.75"/hr)		Heavy (>0.75/hr)		Lightning Freq/Min			Flash Flooding		MOVING WATER		Depth		River Stream		Streets Underpass		
FOG and PARTICULATES		Fog		Freezing Fog		Dust Storm		Smoke		VISABILITY if impaired		>1/4 mile		< 1/4 mile		Zero		
HAIL: (measure long axis)	Pea 1/4"	Marble 1/2"	Penny 3/4"	Quarter 1"	Golf Ball 1 3/4"	Baseball 2 3/4"		Snow Fall >2"/hr		Snow Depth-in Inches:		ROAD CONDI- TIONS		Un-Plowed or Ice Rink				
DAMAGE:	Structures		Frame	Brick	Walls	Roof	Mobile Hms		Pwr Lines		Vehicles		Fences	Trees	Limbs			
NOTES:																		

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SEVERE WEATHER REPORTING FORM DATE: _____

TIME:		Call:		Name:												Spotter #:		
Alpn	Chur	Crns	Doug	Eldor	Lasn	Lyon	Min	Modc	Mon	Nev	Prsh	Plac	Plum	Sier	Stor	Wsho		
Location:															Elevation			
NOTE: The following selections require you to just check or circle the estimated parameter.																		
WIND: MPH	30-44	45-57	58-74	75-89	90+	Estimated		Measured		FROM:	N	NE	E	SE	S	SW	W	NW
RAIN:	Moderate (0.25-0.75"/hr)		Heavy (>0.75/hr)		Lightning Freq/Min			Flash Flooding		MOVING WATER		Depth		River Stream		Streets Underpass		
FOG and PARTICULATES		Fog		Freezing Fog		Dust Storm		Smoke		VISABILITY if impaired		>1/4 mile		< 1/4 mile		Zero		
HAIL: (measure long axis)	Pea 1/4"	Marble 1/2"	Penny 3/4"	Quarter 1"	Golf Ball 1 3/4"	Baseball 2 3/4"		Snow Fall >2"/hr		Snow Depth-in Inches:		ROAD CONDI- TIONS		Un-Plowed or Ice Rink				
DAMAGE:	Structures		Frame	Brick	Walls	Roof	Mobile Hms		Pwr Lines		Vehicles		Fences	Trees	Limbs			
NOTES:																		

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